

### **What is claimed is:**

**[Claim 1]** 1. A method of forming a solid-state image sensor, comprising the steps of:

forming a plurality of photosensor elements on a substrate;  
forming a plurality of color filters on the plurality of photosensors ;  
forming a light blocking member between adjacent color filters; and  
forming a plurality of microlenses on the plurality of color filters;  
wherein each photosensor corresponds to each color filter and each microlens, for receiving an incident light of specific spectrum.

**[Claim 2]** 2. The method of claim 1, wherein the light blocking member comprises a light-impervious film made of metal or chemical compound.

**[Claim 3]** 3. The method of claim 1, wherein the image sensor is a charge-coupled device (CCD).

**[Claim 4]** 4. The method of claim 1, wherein the image sensor is a CMOS sensor.

**[Claim 5]** 5. A solid-state image sensor which is produced according to the method of claim 1.